

Printing date 06/09/2005

Reviewed on 06/09/2005

1 Identification of substance

- **Product details**
- **Trade name:** 39728 Super SEM Flex
- **Article number:** 39728
- **Manufacturer/Supplier:**
SEM Products, Inc.
651 Michael Wylie Dr.
Charlotte, NC 28217
USA
(704)522-1006
- **Information department:** 24HR EMERGENCY CHEMTREC 800-424-9300

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

78-93-3	butanone	10-25%
85-68-7	benzyl butyl phthalate	10-25%
108-88-3	toluene	2.5-10%
123-86-4	n-butyl acetate	2.5-10%
108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%

3 Hazards identification

- **Hazard description:**



Harmful
Highly flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

Has a narcotizing effect.

Highly flammable.

Irritating to eyes, respiratory system and skin.

Possible risk of harm to the unborn child.

Vapours may cause drowsiness and dizziness.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

(Contd. on page 2)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 06/09/2005

Reviewed on 06/09/2005

Trade name: 39728 Super SEM Flex

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

	2	Health = 2
	3	Fire = 3
	0	Reactivity = 0

4 First aid measures

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 3)



Trade name: 39728 Super SEM Flex

(Contd. of page 2)

· Components with limit values that require monitoring at the workplace:

78-93-3 butanone

PEL	590 mg/m ³ , 200 ppm
REL	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
BEI	

108-88-3 toluene

PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	188 mg/m ³ , 50 ppm Skin; BEI

123-86-4 n-butyl acetate

PEL	710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm

· Additional information: The lists that were valid during the creation were used as basis.

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

Material Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 06/09/2005

Reviewed on 06/09/2005

Trade name: 39728 Super SEM Flex

(Contd. of page 3)

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form: Fluid
Color: According to product specification
Odor: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 79°C (174°F)

· **Flash point:** -4°C (25°F)

· **Ignition temperature:** 370.0°C (698°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower: 0.4 Vol %
Upper: 11.5 Vol %

· **Vapor pressure at 20°C (68°F):** 105.0 hPa (79 mm Hg)

· **Density at 20°C (68°F):** 0.98 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents: 41.8 %
VOC content: 41.8 %
 410.0 g/l / 3.42 lb/gl

· **Solids content:** 58.2 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

USA

(Contd. on page 5)



Printing date 06/09/2005

Reviewed on 06/09/2005

Trade name: 39728 Super SEM Flex

(Contd. of page 4)

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· **Product:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **DOT regulations:**



· **Hazard class:**

3

· **Identification number:**

UN1263

· **Packing group:**

II

· **Proper shipping name (technical name):** PAINT RELATED MATERIAL

· **Label**

3

· **Land transport ADR/RID (cross-border):**



· **ADR/RID class:**

3 Flammable liquids

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 06/09/2005

Reviewed on 06/09/2005

Trade name: 39728 Super SEM Flex

(Contd. of page 5)

· **Danger code (Kemler):** 33
 · **UN-Number:** 1263
 · **Packaging group:** II
 · **Label:** 3
 · **Description of goods:** 1263 PAINT RELATED MATERIAL, special provision 640D

· **Maritime transport IMDG:**

· **IMDG Class:** 3
 · **UN Number:** 1263
 · **Label** 3
 · **Packaging group:** II
 · **EMS Number:** F-E,S-E
 · **Marine pollutant:** No
 · **Propper shipping name:** PAINT RELATED MATERIAL

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1263
 · **Label** 3
 · **Packaging group:** II
 · **Propper shipping name:** PAINT RELATED MATERIAL

15 Regulations

· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

78-93-3 butanone

108-88-3 toluene

· **TSCA (Toxic Substances Control Act):**

78-93-3 butanone

85-68-7 benzyl butyl phthalate

108-88-3 toluene

123-86-4 n-butyl acetate

108-65-6 2-methoxy-1-methylethyl acetate

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

(Contd. on page 7)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 06/09/2005

Reviewed on 06/09/2005

Trade name: 39728 Super SEM Flex

(Contd. of page 6)

· **Chemicals known to cause reproductive toxicity:**

108-88-3	toluene
----------	---------

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

78-93-3	butanone	D
---------	----------	---

108-88-3	toluene	D
----------	---------	---

· **IARC (International Agency for Research on Cancer)**

85-68-7	benzyl butyl phthalate	3
---------	------------------------	---

108-88-3	toluene	3
----------	---------	---

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

108-88-3	toluene	A4
----------	---------	----

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Harmful

Highly flammable

· **Hazard-determining components of labelling:**

toluene

· **Risk phrases:**

Highly flammable.

Irritating to eyes, respiratory system and skin.

Possible risk of harm to the unborn child.

Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

Keep in a cool place.

Keep container in a well-ventilated place.

Wear suitable protective clothing, gloves and eye/face protection.

This material and its container must be disposed of as hazardous waste.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Environment protection department.

· **Contact:** Mr. George Wallace